Water Quality Status Report No. 118

Ground Water Study of the Lower Boise River Valley Ada and Canyon Counties, Idaho

Idaho Department of
Health and Welfare
Division of Environmental Quality
May 1996

APPENDIX C

Table 9

VOC Results

Headnotes for Tables 8, 9, 10, and 11

Well Location: well location in latitude and longitude or township, range and section

Primary Use of Water:

H	domestic
I	irrigation
P	public supply
C	commercial
D	dewater
S	stock
F	fire

Units of Measure:

°C	degrees celsius
US/CM	microsiemens per centimeter at 25 °C
<	less than
>	greater than
MG/L	milligrams per liter
STAND UNITS	standard units
MG/L as N	milligrams per liter as nitrogen
DISS	dissolved
MG/L as PO4	milligrams per liter as phosphate
MG/L as P	milligrams per liter as phosphorus
COL/100 ML	colonies per 100 milliliters
PCI/L	picocuries per liter
UG/L	micrograms per liter
H2O	water
REC	recoverable
GF	glass fiber filter
FLT	filtered
U	micron (filter pore size)
ND	non-detect
*	results from Dept. of Ag study
MG/L as CACO3	milligrams per liter as calcium carbonate
MG/L as CA	milligrams per liter as calcium
MG/L as MG	milligrams per liter as magnesium
MG/L as NA	milligrams per liter as sodium
MG/L as K	milligrams per liter as potassium
MG/L as CL	milligrams per liter as chloride
MG/L as SO4	milligrams per liter as sulfate
MG/L as F	milligrams per liter as fluoride
MG/L as SIO2	milligrams per liter as silica
UG/L as AS	micrograms per liter as arsenic
UG/L as CD	micrograms per liter as cadmium
UG/L as CR	micrograms per liter as chromium
UG/L as FE	micrograms per liter as iron

Units of Measure continued:

UG/L as PB	micrograms per liter as lead
UG/L as MN	micrograms per liter as manganese
UG/L as ZN	micrograms per liter as zinc
UG/L as SE	micrograms per liter as selenium

Empty Box: no information available

Volatile Organic Compounds (VOCs) were analyzed at every site with a portable gas chromatograph for presence or absence. Sites with VOCs present had duplicates sent to Alpha Analytical Laboratory in Sparks, Nevada, those results can be found in Table 9.

Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	A	B	C	D	E	F	G	H
1	LATITUDE	LONGITUDE	TOWNSHIP RANGE & SECTION	DATE SAMPLED	TEMP °C	WELL DEPTH (FEET)	CHLORO BENZENE (UG/L)	1,2,3-TRI CHLORO BENZENE (UG/L)
2								
3								
4								
5								
6								
7	43°32'46"	116°25'54"	02N 01W 02BBA1	07-13-95	14.5	104	ND	ND
8	43°31'43"	116°24'51"	02N 01W 11ADA1	08-03-95	12.5	190	ND	
9	43°32'42"	116°35'53"	02N 02W 05ABA1	07-22-95	16	180	ND	
10	43°38'02"	116°19'48"	03N 01E 03BBA1	08-18-95	21.5	117	ND	
11	43°37'51"	116°20'45"	03N 01E 04BAD1	08-01-95	14	68	ND	
12	43°37'54"	116°21'14"	03N 01E 05AADA1	09-14-95	13	86	ND	
13	43°38'01"	116°21'32"	03N 01E 05ABAA1	09-14-95	13.5	63	ND	
14	43°37'39"	116°21'38"	03N 01E 05ACDB1	09-25-95	13.5	97	ND	
15	43°37'56"	116°21'49"	03N 01E 05BAAD1	10-17-95	13.5	28	ND	
16	43°37'56"	116°21'49"	03N 01E 05BAAD2	10-17-95	12.5	162	ND	
17	43°36'48"	116°23'31"	03N 01E 07BCCA1	09-27-95	15	35	ND	
18	43°36'47"	116°23'29"	03N 01E 07BCCA2	09-27-95	15.5	35	ND	
19	43°38'07"	116°18'33"	03N 01E 14BBD1	07-05-95	14.5	183	ND	ND
20	43°34'34"	116°21'22"	03N 01E 20DDCD1	10-24-95	12.5	170	ND	
21	43°37'37"	116°37'07"	03N 02W 06ACD1	09-08-95	13.5	87	ND	ND
22	43°36'33"	116°37'51"	03N 02W 07CBC1	07-22-95	18.5	196	ND	ND
23	43°36'19"	116°33'23"	03N 02W 10DDCC1	09-06-95	16.5	213	ND	
24	43°36'20"	116°33'18"	03N 02W 10DDCD1	09-06-95	15.5	70	ND	
25	43°36'22"	116°33'18"	03N 02W 10DDCD2	09-06-95	15	60	ND	
26	43°36'21"	116°33'16"	03N 02W 10DDDC1	09-06-95	15.5	75	ND	
27	43°36'46"	116°32'44"	03N 02W 11BDCD1	09-08-95	16.5	110	ND	
28	43°36'18"	116°32'54"	03N 02W 14BBAB2	09-08-95	24.5	82	ND	
29	43°36'18"	116°33'06"	03N 02W 14BBBB1	09-08-95	14.5	80	ND	
30	43°36'02"	116°36'38"	03N 02W 17BCB1	08-16-95	24	461	ND	ND
31	43°32'49"	116°31'35"	03N 02W 36CDC1	07-25-95	15.5	90	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	I	J	K	L	M	N	O	P	Q
1	1,2,4-	1,2,4-	1,3,5-TRI	1,4-DI	BENZENE	BROMO	ETHYL	ISOPROPYL	n-BUTYL
2	TRI	TRI-	METHYL	CHLORO	(UG/L)	BENZENE	BENZENE	BENZENE	BENZENE
3	CHLORO	METHYL	BENZENE	BENZENE		(UG/L)	(UG/L)	(UG/L)	(UG/L)
4	BENZENE	BENZENE	(UG/L)	WATER					
5	WATER	(UG/L)		(UG/L)					
6	(UG/L)								
7	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	ND		ND	ND	ND	ND	ND		
11				ND	ND		ND		
12				ND	ND		ND		
13				ND	ND		ND		
14				ND	ND		ND		
15				ND	ND		ND		
16				ND	ND		ND		
17				ND	ND		ND		
18		0.24		ND	ND		ND	0.1	
19	ND	ND	ND	ND	ND	ND	ND	ND	ND
20				ND	ND		ND		
21	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	ND	ND	ND	ND	ND	ND	ND	ND	ND
23				ND	ND		ND		
24	ND			ND	ND		ND		
25				ND	ND		ND		
26				ND	ND		ND		
27				ND	ND		ND		
28				ND	ND		ND		
29				ND	ND		ND		
30	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	R	S	T	U	V	W	X	Y	Z
1	n-PROPYL BENZENE (UG/L)	sec-BUTYL BENZENE (UG/L)	tert-BUTYL BENZENE (UG/L)	BROMO FORM (UG/L)	CARBON TETRA CHLORIDE (UG/L)	CHLORO BENZENE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	DI-BROMO CHLORO METHANE (UG/L)
2									
3									
4									
5									
6									
7	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	ND	ND	ND	ND	ND	ND	ND	ND	ND
10				ND	ND	ND	ND	0.25	0.56
11				ND	ND	ND		ND	ND
12				ND	ND	ND		ND	ND
13				ND	ND	ND		ND	ND
14				ND	ND	ND		ND	ND
15				ND	ND	ND		ND	ND
16				ND	ND	ND		ND	ND
17				ND	ND	ND		ND	ND
18		0.3		ND	ND	ND		ND	ND
19	ND	ND	ND	ND	ND	ND	ND	ND	ND
20				ND	ND			ND	ND
21	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	ND	ND	ND	ND	ND	ND	ND	ND	ND
23				ND	ND	ND		ND	ND
24				ND	ND	ND		ND	ND
25				ND	ND	ND		ND	ND
26				ND	ND	ND		ND	ND
27				ND	ND	ND		ND	ND
28				1.9	ND	ND		ND	0.5
29				ND	ND	ND		ND	ND
30	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	DI BROMO METHANE (UG/L)	BROMO DI CHLORO METHANE (UG/L)	1,1-DI CHLORO ETHANE (UG/L)	1,1,1-TRI CHLORO ETHANE (UG/L)	1,1,1,2-TETRA CHLORO ETHANE WATER (UG/L)	1,1,2-TRI CHLORO ETHANE (UG/L)	1,1,2,2-TETRA CHLORO ETHANE WATER (UG/L)	1,2-DI BROMO ETHANE (UG/L)	1,2-DI CHLORO ETHANE (UG/L)	TRI-CHLORO FLUORO ETHANE (UG/L)
2										
3										
4										
5										
6										
7	ND	ND	ND	ND	ND	ND	ND		ND	
8	ND	ND	ND	ND	ND	ND	ND		ND	
9	ND	ND	ND	ND	ND	ND	ND		ND	
10	ND	0.27	ND	ND		ND	ND		ND	
11		ND	ND	ND					ND	ND
12		ND	ND	ND					ND	ND
13		ND	ND	ND					ND	ND
14		ND	ND	ND					ND	ND
15		ND	ND	ND					ND	ND
16		ND	ND	ND					ND	ND
17		ND	ND	ND					ND	ND
18		ND	ND	ND					ND	ND
19	ND	ND	ND	ND	ND	ND	ND		ND	
20		ND	ND	ND					ND	ND
21	ND	ND	ND	ND	ND	ND	ND		ND	
22	ND	ND	ND	ND	ND	ND	ND		ND	
23		ND	ND	ND					ND	ND
24		ND	ND	ND			ND		ND	ND
25		ND	ND	ND					ND	ND
26		ND	ND	ND					ND	ND
27		ND	ND	ND					ND	ND
28		ND	ND	ND					ND	ND
29		ND	ND	0.5					ND	ND
30	ND	ND	ND	ND	ND	ND	ND		ND	
31	ND	ND	ND	ND	ND	ND	ND		ND	

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1	METHYL ETHER TERT BUTYL (UG/L)	1,1-DI CHLORO ETHYLENE (UG/L)	cis-1,2-DI CHLORO ETHENE (UG/L)	trans-1,2-DI CHLORO ETHENE (UG/L)	TETRA CHLORO ETHYL ENE (UG/L)	TRI CHLORO ETHYL ENE (UG/L)	HEXA CHLORO BUT ADIENE (UG/L)	METHYL BROMIDE (UG/L)	BROMO CHLORO METHANE (UG/L)	DI-CHLORO METHANE (UG/L)
2										
3										
4										
5										
6										
7		ND	ND	ND	ND	ND	ND	ND	ND	ND
8		ND	ND	ND	ND	ND	ND	ND	ND	ND
9		ND	ND	ND	ND	ND	ND	ND	ND	ND
10		ND	ND	ND	ND	ND	ND	ND		
11	ND	ND	ND	ND	0.3	ND				
12	ND	ND	ND	ND	0.2	ND				
13	ND	ND	ND	ND	0.3	ND				
14	ND	ND	ND	ND	0.2	ND				
15	ND	ND	ND	ND	ND	ND				
16	ND	ND	ND	ND	0.2	ND				
17	ND	ND	ND	ND	ND	ND				
18	ND	ND	ND	ND	ND	ND				
19		ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	ND	ND	ND	0.14	ND				
21		ND	ND	ND	ND	ND	ND	ND	ND	ND
22		ND	ND	ND	ND	ND	ND	ND	ND	ND
23	ND	ND	ND	ND	ND	ND				
24	ND	ND	ND	ND	0.4	ND				
25	ND	ND	ND	ND	34	ND				
26	ND	ND	ND	ND	0.8	ND				
27	ND	ND	ND	ND	ND	ND				
28	ND	ND	ND	ND	ND	ND				
29	ND	ND	0.3	ND	110	0.4				
30		ND	ND	ND	ND	ND	ND	ND	ND	ND
31		ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1	DI CHLORO DI FLUORO METHANE (UG/L)	TRI CHLORO FLUORO METHANE (UG/I0	METHYL ENE CHLORIDE (UG/L)	NAPHTH ALENE (UG/L)	DIBROMO CHLORO PROPANE (UG/L)	1,2-DI CHLORO PROPANE (UG/L)	1,2,3-TRI CHLORO PROPANE (UG/L)	1,3-DI CHLORO PROPANE (UG/L)	2,2-DI CHLORO PROPANE (UG/L)	1,1-DI CHLORO PROPENE (UG/L)
2										
3										
4										
5										
6										
7	ND	ND	ND	ND		ND	ND	ND	ND	ND
8	ND	ND	ND	ND		ND	ND	ND	ND	ND
9	ND	ND	ND	ND		ND	ND	ND	ND	ND
10	ND	ND	ND	ND		ND				
11	ND	ND	ND			ND				
12	ND	ND	ND			ND				
13	ND	ND	ND			ND				
14	ND	ND	ND			ND				
15	ND	ND	ND			ND				
16	ND	ND	ND			ND				
17	ND	ND	ND			ND				
18	ND	ND	ND			ND				
19	ND	ND	ND	ND		ND	ND	ND	ND	ND
20	ND	ND	ND			ND				
21	ND	ND	ND	ND		ND	ND	ND	ND	ND
22	ND	ND	ND	ND		ND	ND	ND	ND	ND
23	ND	ND	ND			ND				
24	ND	ND	ND			ND				
25	ND	ND	ND			ND				
26	ND	ND	ND			ND				
27	ND	ND	ND			ND				
28	ND	ND	ND			ND				
29	ND	ND	ND			ND				
30	ND	ND	ND	ND		ND	ND	ND	ND	ND
31	ND	ND	ND	ND		ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	BE	BF	BG	BH	BI	BJ	BK	BL	BM
1	cis-1,3-DI CHLORO PROPENE (UG/L)	TRANS 1,3-DI CHLORO PROPENE (UG/L)	STYRENE (UG/L)	TOLUENE (UG/L)	o-CHLORO TOLUENE (UG/L)	p-CHLORO TOLUENE (UG/L)	p-ISO PROPYL TOLUENE (UG/L)	VINYL CHLORIDE (UG/L)	XYLENE (UG/L)
2									
3									
4									
5									
6									
7		ND	ND	ND	ND	ND	ND	ND	ND
8		ND	ND	ND	ND	ND	ND	ND	ND
9		ND	ND	ND	ND	ND	ND	ND	ND
10		ND	ND	ND				ND	ND
11			ND	ND				ND	ND
12			ND	ND				ND	ND
13			ND	ND				ND	ND
14			ND	ND				ND	ND
15			ND	ND				ND	ND
16			ND	ND				ND	ND
17			ND	ND				ND	ND
18			ND	ND				ND	ND
19		ND	ND	ND	ND	ND	ND	ND	ND
20			ND	ND				ND	ND
21		ND	ND	ND	ND	ND	ND	ND	ND
22		ND	ND	ND	ND	ND	ND	ND	ND
23			ND	ND				ND	ND
24			ND	ND				ND	ND
25			ND	ND				ND	ND
26			ND	ND				ND	ND
27			ND	ND				ND	ND
28			ND	ND				ND	ND
29			ND	ND				ND	ND
30		ND	ND	ND	ND	ND	ND	ND	ND
31		ND	ND	ND	ND	ND	ND	ND	ND

Spreadsheet 1